

# UNIVERSAL WINDOW TIMES

**JANUARY 1982 thru DECEMBER 1982**



**Varian EIMAC**

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The following Universal Window times are based on the new specifications outlined in AS-49-12. The moon is always at a north, or positive, declination during the European Universal Window. The start of the window is two hours from the setting moon time in Frankfurt, Germany. The end of the window is when the moon sets at this same location. The level of activity in any of the windows will depend upon how reasonable the time of the day is. Early hours in the morning on working days will not be too attractive to many operators. The last hour of the window will be the most popular time for those stations with antennas pointing toward the horizon.

The times were calculated in two minute increments; therefore, there can be up to a plus or minus two minute error.

Also included are the times each month for the new moon. During the summer months the moon and the sun appear to be in the same place in the sky. The sun noise can therefore mask any moonbounce signals. At least one day can be lost, and perhaps more, depending upon the directivity of the antenna arrays at both ends of the path.

<u>1982</u>	<u>New Moon</u>	<u>Perigee</u>	<u>Apogee</u>
January	25	8	20
February	23	5	17
March	25	4, 29	17
April	23	25	14
May	23	24	11
June	21	21	7
July	20	19	5
August	19	17	1, 29
September	17	13	25
October	17	9	23
November	15	4	20
December	15	2, 30	18

# CALENDAR FOR THE YEAR 1982

## JANUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## FEBRUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

## MARCH

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## APRIL

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## MAY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## JUNE

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## JULY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## SEPTEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## NOVEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NEW MOON X

PERIGEE ○

APOGEE ◡

UWIND —

## JANUARY-1982

Day	UT
3-4	2222-0022
4-5	2340-0140
6	0100-0300
8	0336-0536
9	0447-0647
10	0545-0745
11	0630-0830
12	0708-0908
13	0737-0937
14	0802-1002
15	0823-1023
30	2010-2210
31	2125-2325

## FEBRUARY-1982

Day	UT
1-2	2242-0042
3	0000-0200
4	0117-0317
5	0227-0427
6	0330-0530
7	0421-0621
8	0502-0702
9	0535-0735
10	0602-0802
11	0625-0825
26	1800-2000
27	1915-2115
28	2032-2232

## MARCH-1982

Day	UT
1	2149-2349
2-3	2306-0106
4	0017-0217
5	0121-0321
6	0215-0415
7	0257-0457
8	0332-0532
9	0402-0602
10	0425-0625
11	0447-0647
26	1700-1900
27	1819-2019
28	1938-2138
29	2057-2257
30-31	2300-0100

## APRIL-1982

Day	UT
31-1	2317-0117
2	0012-0212
3	0059-0259
4	0134-0334
5	0204-0404
6	0229-0429
7	0251-0451
22	1435-1635
23	1555-1755
24	1717-1917
25	1838-2038
26	1957-2157
27	2110-2310
28-29	2210-0010
29-30	2300-0100

## MAY-1982

Day	UT
30-1	2338-0138
2	0010-0210
3	0036-0236
4	0057-0257
5	0117-0317
20	1325-1525
21	1447-1647
22	1610-1810
23	1732-1932
24	1851-2051
25	2000-2200
26	0055-2255
27	2140-2340
28-29	2215-0015
29-30	2242-0042
30-31	2304-0104

## JUNE-1982

Day	UT
31-1	2325-0125
16	1100-1300
17	1217-1417
18	1338-1538
19	1502-1702
20	1623-1823
21	1738-1938
22	1842-2042
23	1934-2134
24	2014-2214
25	2045-2245
26	2110-2310
27	2132-2332

## JULY-1982

Day	UT
14	0959-1159
15	1115-1315
16	1235-1435
17	1355-1555
18	1513-1713
19	1621-1821
20	1721-1921
21	1806-2006
22	1842-2042
23	1910-2110
24	1935-2135
25	1956-2156

## AUGUST-1982

Day	UT
10	0749-0949
11	0902-1102
12	1018-1218
13	1136-1336
14	1252-1452
15	1404-1604
16	1506-1706
17	1557-1757
18	1636-1836
19	1708-1908
20	1731-1931
21	1757-1957

## SEPTEMBER-1982

Day	UT
6	0539-0739
7	0653-0853
8	0809-1009
9	0925-1125
10	1041-1241
11	1154-1354
12	1258-1458
13	1351-1551
14	1433-1633
15	1506-1706
16	1534-1734
17	1559-1759
18	1620-1820

## OCTOBER-1982

Day	UT
3	0323-0523
4	0440-0640
5	0557-0757
6	0715-0915
7	0832-1032
8	0947-1147
9	1053-1253
10	1149-1349
11	1234-1434
12	1310-1510
13	1358-1538
14	1402-1602
15	1423-1623
31	0217-0417

## NOVEMBER-1982

Day	UT
1	0334-0534
2	0455-0655
3	0615-0815
4	0734-0934
5	0846-1046
6	0947-1147
7	1036-1236
8	1114-1314
9	1144-1344
10	1208-1408
11	1230-1430
26-27	2351-0151
28	0105-0305
29	0225-0425
30	0347-0547

## DECEMBER-1982

Day	UT
1	0510-0710
2	0627-0827
3	0736-0936
4	0832-1032
5	0915-1115
6	0949-1149
7	1015-1215
8	1037-1237
9	1057-1257
24-25	2242-0042
25-26	2357-0157
27	0117-0317
28	0238-0438
29	0359-0559
30	0514-0714
31	0616-0816